R E P O R T R E S U M E S

ED 017 439 RE 001 166

TO MONITOR OR NOT TO MONITOR--DICISIONS IN THE RETRIEVAL OF READING RESEARCH JOURNAL LITERATURE. ERIC/CRIER READING REVIEW SERIES, VOLUME 1.

BY- SUMMERS, EDWARD G.
INDIANA UNIV., BLOOMINGTON, ERIC CH. ON READING

PUB DATE MAR 68

EDRS PRICE MF-$0.25 HC-$1.68 40P.

DESCRIPTORS- *READING RESEARCH, *RESEARCH REVIEWS (PUBLICATIONS), SCHOLARLY JOURNALS, INFORMATION RETRIEVAL, PERIODICALS, INFORMATION UTILIZATION, INFORMATION PROCESSING, READING RESEARCH CENTER, UNIVERSITY OF CHICAGO,

THE DEVELOPMENT OF AN OBJECTIVE STRATEGY FOR THE SELECTION OF JOURNAL LITERATURE IN THE RETRIEVAL OF READING RESEARCH IS DESCRIBED. A FREQUENCY COUNT WAS MADE OF THE ARTICLES APPEARING IN THE GRAY SUMMARIES OF READING RESEARCH PUBLISHED ANNUALLY BY THE READING RESEARCH CENTER OF THE UNIVERSITY OF CHICAGO. THE JOURNALS FOR THE PERIOD 1884 TO 1965-66 WERE RANKED IN TERMS OF PRODUCTIVE IMPORTANCE. LISTS OF JOURNALS ARE SUGGESTED THAT WOULD SUPPLY THREE LEVELS OF COVERAGE -- TOTAL COVERAGE, 50-PERCENT COVERAGE, AND 80-PERCENT COVERAGE. DECISION FACTORS OTHER THAN SHEER QUANTITY OF PRODUCTION THAT MUST ENTER INTO THE SELECTION OF JOURNALS TO INSURE ADEQUATE COVERAGE OF READING RESEARCH ARE DISCUSSED. (AUTHOR)

ED017439

ERIC CRIER reading review series

To Monitor or Not to Monitor: Decisions in the Retrieval of Reading Research Journal Literature

Edward G. Summers
Indiana University

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

RE001 166

ERIC/CLEARINGHOUSE ON RETRIEVAL OF INFORMATION AND EVALUATION ON READING

a national clearinghouse to organize and disseminate significant research, information, and materials on reading for teachers, administrators, researchers, and the public. A joint project of the International Reading Association and Indiana University in cooperation with the National Institute of Education, Department of HEW

ERIC/CRIER READING REVIEW SERIES

Volume 1

March, 1968

To Monitor or Not to Monitor: Decisions in the Retrieval of Reading Research Journal Literature

Edward G. Summers
Indiana University

RE 001 166

The ERIC Clearinghouse on Retrieval of Information and Evaluation on Reading is a national clearinghouse which collects, organizes, analyzes, and disseminates significant research, information, and material on reading to teachers, administrators, researchers, and the public. ERIC/CRIER was established as a joint project of the International Reading Association and Indiana University in cooperation with the Educational Resources Information Center of USOE. The Clearinghouse is part of a comprehensive information system being developed for the field of education.

The ERIC/CRIER Reading Review Series has been created to disseminate the information analysis products of the Clearinghouse. Analysis of information can take place on a broad continuum ranging from comprehensive reviews of the state of the knowledge in a given area to bibliographies of citations on various topics. Four genres of documents appear in the Reading Review Series. The first type includes bibliographies, with descriptive abstracts, developed in areas of general interest. The second type consists of bibliographies of citations, or citations and abstracts, developed on more specific topics in reading. The third type provides short, interpretive papers which analyze specific topics in reading using the existing information collection. The final genre includes comprehensive state-of-the-art monographs which critically examine given topics in reading over an extended period of time.

To Monitor or Not to Monitor: Decisions in the Retrieval of Reading Research Journal Literature describes the development of an objective strategy for selection of journal literature in retrieval of reading research. A frequency count was made of the articles appearing in the Gray summaries of reading research published annually by the Reading Research Center of the University of Chicago. The journals for the period 1884 to 1965-66 were ranked in terms of productive importance. Lists of journals are suggested that would supply three levels of coverage: total coverage, 50% coverage, and 80% coverage. Decision factors other than sheer quantity of production that must enter into the selection of journals to insure adequate coverage of reading research are also discussed.

Several document corpora make up the Master File of materials which is organized for search and retrieval in the ERIC/CRIER Clearinghouse on Reading. The Gray Summaries comprise one segment of the file and consist of over 4,000 references from the published literature which report reading research. This material is an important link in the information and communication network for reading. A recent study by Summers(1) described the procedures followed in assembling the Gray bibliographies and transforming them for computer storage and retrieval. The study identified journals citing reading research and the network output in journal and article production across the total time span of the summaries - approximately 1884 to 1966. The statistics verify the rapidly expanding nature of information base in reading research. Journals were also classified into core, high frequency and peripheral publications based on the relative volume of article output over the time span tabulated.

One goal of ERIC/CRIER is the establishment of a surveillance system which will monitor the journal literature and continue to add important articles on reading research to the data base. The question of what journals should be monitored, out of the hundreds available to education, to insure acquisition of a substantial proportion of the reading research articles published becomes an extremely important one. The project using the Gray Summaries provides basic data which is helpful in establishing

---

(1) Edward G. Summers, Storing and Searching Reading Research by Computer, Final Report USOE Project OE-5-10-224. December, 1967.

the relative productive importance of journals and in making decisions on those which it would be most effective to monitor.

Pattern of Journal Citation in the Gray Summaries

A frequency count was made on the Gray Summaries for the period 1884 to 1966. The results were arrayed in five periods and are presented in Tables 1 through 5. Each table presents, in rank order, the most productive journals for each period and the number of articles reported by those journals. For each of the five periods the rank order list was first split between the values for the "most-cited" journals carrying approximately 50% of the articles and the "least-cited" journals carrying the remaining half. The results for the five periods are presented in Table 6. The statistics for each of the five periods follow a consistent pattern. The comparisons fall roughly into a 5% to 10%/90% to 95% division. Five to ten percent of the total number of journals identified reported approximately 50% of the articles while the other 50% was reported by the remaining ninety to ninety-five percent of the journals - depending on which period is being examined. For purposes of contrast Table 7 reports the results when the rank order list was split for the "most-cited" journals carrying approximately 80% of the articles and the "least-cited" journals carrying the remaining 20%. The statistics for each of the five periods again follow a consistent pattern. The comparisons fall roughly into a 23% to 29%/72% to 76% division. Twenty-three to twenty-nine percent of the total number of journals identified reported approximately 80% of the articles while 20% was reported by the remaining seventy-two to seventy-six percent of the journals - depending on which period is being examined.

Table

Rank order published research literature in reading - 1884-1924 -- 1925-1926.

Journal	Total no. articles	1884-1924	1924-1925	1925-1926
Elementary School J.	59	47	5	7
J. of Educational Psychology	45	41	3	1
School & Society	38	32	3	3
J. of Educational Research	35	26	5	4
Teachers College Record	23	11	8	4
School Review	14	11	1	2
Pedagogical Seminary	13	12		1
Elementary School Teacher	11	11		
Chicago Schools J.	8	6		2
American J. of Psychology	7	7		
Ed'l. Administration & Supervision	7	6		1
Psychological Clinic	7	7		
J. of Educational Method	5	2		3
American School Board J.	4	3	1	
Detroit J. of Education	4	4		
Education	4	4		
Psychological Monographs	4	4		
Educational Review	3	3		
English Journal	3	3		
J. of Experimental Pedagogy	3	3		
J. of Experimental Psychology	3	2		1
Midland Schools	2	2		
Psychological Bulletin	2	2		
School World	2	2		
Teachers J. & Abstract	2			2
Univ. of Pittsburgh School of Ed. J.	2			2
American Education	1	1		
Atlantic Educational Journal	1	1		
British J. of Psychology	1	1		
College Chronical	1			1
Educational Research	1	1		
Forum of Education	1	1		
J. of Applied Psychology	1			1
J. of Louisiana Teachers Assn.	1	1		
J. of New York State Teachers Assn.	1	1		
Nature Study Review	1	1		
Peabody J. of Education	1	1		
Popular Science Monthly	1	1		
Public School Messenger	1			1
Quarterly J. of Speech Education	1	1		
Training School Bulletin	1	1		
Volta Review	1	1		
Totals	326	261	28	36

Table

Rank order published research literature in reading - 1926-1927 -- 1935-1936.

Journal	Total no. articles	1926-1927	1927-1928	1928-1929	1929-1930	1930-1931	1931-1932	1932-1933	1933-1934	1934-1935	1935-1936
Elementary School Journal	92	6	10	16	5	15	10	8	6	8	8
J. of Educational Research	68	5	7	6	5	4	7	5	6	10	13
J. of Educational Psychology	53	6	4	8	6	2	3	4	8	6	6
J. of Applied Psychology	43		3	5	7	6	2	8	1	5	6
School & Society	40	6	4	5	6	1	3	5	5	5	
Elementary English Review	35	5	5	3	1	4	1	1	4	6	5
School Review	34	3	1	4	4	4	7	3	4	3	1
Educational Research Bulletin	28	8	2	4	5	2	1	2		4	
Teacher's College Record	21	5	5	3	1	1	1	2		2	1
English Journal	18	3		1	1		2	3	1	5	2
Educational Method	16			2	4	3	2	2	2	1	
Library Quarterly	16					3	2	2	2	4	3
J. of Genetic Psychology	14				3		3		1	3	4
Peabody J. of Education	14	2	1	3		3	1	1		1	2
Psychological Clinic	13		3	4		4	2				
J. of Experimental Education	12							3	4	2	3
J. of Experimental Psychology	12	4		2	1	2	1	1			1
Education	11		2			1	1		1		6
Ed'l. Administration & Supervision	11		1	2	1		1	2	2	1	1
J. of Higher Education	10				1	3	1	1		3	1
Univ. of Pittsburgh School of Ed. J.	10	2		4	3	1					
Childhood Education	9	3				1		3	2		
Calif. Quarterly of Secondary Ed.	8		3	1	1	1			2		
Psychological Bulletin	8		1	1	2	1			1	1	1
Calif. J. of Elementary Education	6									3	3
Chicago Schools J.	6		1	2	2	1					
Genetic Psychology Monographs	6			3	1		2				

Table 2 cont'd.

Rank order published research literature in reading - 1926-1927 -- 1935-1936. cont'd.

Journal	Total no. articles	1926-1927	1927-1928	1928-1929	1929-1930	1930-1931	1931-1932	1932-1933	1933-1934	1934-1935	1935-1936
J. of General Psychology	6			1			1	2			2
American J. of Psychology	5			1		3			1		
Library Journal	5	1	1				1	1	1		
Publisher's Weekly	5		1	1	1					2	
Rev. of Educational Research	4								1	3	
Teacher's College J.	4				1	1		1		1	
Calif. J. of Secondary Education	3						1			2	
J. of Adult Education	3			1						1	1
J. of Education	3					1				2	
J. of Educational Method	3	1	2								
J. of Juvenile Research	3									1	2
J. of Nat'l. Education Assn.	3				2		1				
J. of Negro Education	3							1	2		
Modern Language Forum	3	1			2						
Psychological Review	3			1		1			1		
American J. of Ophthalmology	2									1	1
British J. of Psychology	2								1	1	
Catholic Educational Review	2		1								
Educational Trends	2							1	1		
High School Journal	2					1					1
J. of American Medical Assn.	2			1	1						
J. of Education & Psychology	2						2				
J. of Educational Sociology	2			1			1				
Junior College Journal	2							1	1		
Mental Hygiene	2			1			1				
Modern Language Journal	2					1					1
Nation's Schools	2								1		1
Pittsburgh Schools	2						1			1	
Progressive Education	2		1								1
Psychological Monographs	2				2						

Table 2 cont'd.

Rank order published research literature in reading - 1926-1927 -- 1935-1936. cont'd.

Journal	Total no. articles	1926-1927	1927-1928	1928-1929	1929-1930	1930-1931	1931-1932	1932-1933	1933-1934	1934-1935	1935-1936
School Executive's Magazine	2					1	1				
Teacher's J. & Abstract	2		1			1					1
Training School Bulletin	2						1				
AATC Quarterly	1									1	
American Academy of Optometry	1									1	
American J. of Orthopsychiatry	1					1					
American Schoolmaster	1										1
American School Board Journal	1			1							
Annals of Amer. Academy of Political & Social Sciences	1							1			
Arizona Teacher	1							1			
Australian Educational Studies	1			1						1	
Bookman	1										
British J. of Educational Psychology	1				1						
Debunker	1						1				
Educational Outlook	1		1								1
Educational Review	1							1			
Educational Screen	1								1		
Elementary English	1				1						
English Leaflet	1							1			
Forum of Education	1					1					
German Quarterly	1							1			
High School Teacher	1										1
Historical Outlook	1										1
Illinois Medical Journal	1			1							
Illinois Teacher	1										1
Iowa Library Quarterly	1										1
Journalism Quarterly	1										1
J. of Exceptional Children	1										
J. of Industrial Hygiene	1										

Table 2 cont'd.

Rank order published research literature in reading - 1926-1927 -- 1935-1936. cont'd.

Journal	Total no. articles	1926-1927	1927-1928	1928-1929	1929-1930	1930-1931	1931-1932	1932-1933	1933-1934	1934-1935	1935-1936
J. of Psychology	1										1
Libraries	1	1									
London Times Ed'l. Supplement	1				1						
Minnesota J. of Education	1				1						
New England J. of Medicine	1			1							
New Republic	1		1								
New York State Education	1					1					
North Carolina Teacher	1				1						
Pedagogical Seminary	1						1				
Phi Delta Kappan	1							1			
Platoon School	1				1						
Public School Messenger	1	1									
School Science & Math.	1							1			
Science	1									1	
Science Education	1					1					
Smith College Studies in Social Work	1						1				
Special Libraries	1			1							
Survey	1		1								
Texas Outlook	1				1						
Virginia J. of Education	1				1						
Virginia Teacher	1			1							
Totals	755	64	64	94	75	79	67	70	63	93	86

Table 3

Rank order published research literature in reading - 1936-1937 -- 1945-1946.

Journal	Total no. articles	1936-1937	1937-1938	1938-1939	1939-1940	1940-1941	1941-1942	1942-1943	1943-1944	1944-1945	1945-1946
J. of Educational Psychology	93	9	10	6	10	6	14	13	9	8	8
J. of Educational Research	93	5	9	14	9	7	3	16	12	9	9
Elementary School Journal	90	12	9	11	9	9	12	9	7	3	9
Elementary English Review	47	9	6	14	5	7	3				3
School Review	38	6	5	4	7	1	6	6	1	1	1
J. of Experimental Education	34	5	2	2	5	6	8	4	1	1	
School & Society	24		4	3	3	7	2	1	1	1	2
English Journal	22	3	5	6	3	2	1	2			
J. of Applied Psychology	18	1	2		1	3	1	3	1	3	3
Peabody J. of Education	16			2	4	3		4	1	1	1
Library Quarterly	15		3	1	2	1	3	1	3		1
J. of Genetic Psychology	14	1		4	1	3	2	1	1	1	
J. of Experimental Psychology	12	1	2	2	2	2	1		1		1
J. of Psychology	12	1			5	3		1	1		1
Teacher's College Record	11	3		2		1	2		2	1	
J. of General Psychology	10		2	2			2			1	3
Pittsburgh Schools	10	2		1	4		1	1	1		
Psychological Monographs	10	7		1					2		
Amer. Academy of Optometry	8		1		2		4			1	
Ed'l. Administration & Supervision	8	1		1		2	1	3			
Rev. of Educational Research	8	1	2		1			3			1
American J. of Psychology	7			1	1	1	1		2	1	
Educational Research Bulletin	7	1		2	1	2	1				
J. of Higher Education	7		1	3		2	1				
Chicago Schools Journal	6	2	1	1	1		1				
Education	6	1				1	4				
Texas Outlook	6			1	2		1	1	1		
American J. of Orthopsychiatry	5	1			2			2			
Educational Method	5		3	1		1					
El Paso School Standard	5						4	1			

Table 3 cont'd.

Rank order published research literature in reading - 1936-1937 -- 1945-1946. cont'd.

Journal	Total no. articles	1936-1937	1937-1938	1938-1939	1939-1940	1940-1941	1941-1942	1942-1943	1943-1944	1944-1945	1945-1946
J. of Negro Education	5		1			1			1	1	1
J. of Social Psychology	5					3				2	
Teacher's College J.	5			1		1	2	1			
American J. of Ophthalmology	4			1	1			1		1	
Calif. J. of Elementary Education	4	1	1		1	1					
High Points	4		1	1	1						1
Modern Language Journal	4		1	1	2						
National Elementary Principal	4			1	1				1		1
Archives of Ophthalmology	3				1	1		1			
British J. of Educational Psychology	3					1	2				
Junior College Journal	3		2			1					
Mathematics Teacher	3	1		2							3
St. Louis Public Schools Journal	3							1		2	
Visual Digest	3							1			1
Annual Review of Psychology	2						1				
Calif. J. of Secondary Education	2		1				1				
Catholic Educational Review	2			1							
Catholic Schools Journal	2			2							
Child Development	2				2						
The Clearinghouse	2				1					1	
Ed'l. & Psychological Measurement	2						1				1
Educational Record	2		1	1							
Elementary English	2							2			
Genetic Psychology Monographs	2						1			1	
J. of Abnormal & Social Psychology	2										2
J. of Amer. Assn. of Collegiate Registrars	2						1				1
J. of Consulting Psychology	2		1	1							
J. of Exceptional Children	2	1						1			
Kansas Studies in Education	2					2					
Phi Delta Kappan	2						1	1			

Table ; cont'd.

Rank order published research literature in reading - 1936-1937 -- 1945-1946. cont'd.

Journal	Total no. articles	1936-1937	1937-1938	1938-1939	1939-1940	1940-1941	1941-1942	1942-1943	1943-1944	1944-1945	1945-1946
Psychological Bulletin	2						1				1
Psychological Record	2					2					
School Science & Math.	2					1					1
Science Education	2		1				1				
Sight-Saving Review	2				1			1			
What Does Research Say?	2	1	1								
Archives of Pediatrics	1		1								
British J. of Psychology	1	1									
College English	1				1						
Educational Forum	1			1							
Educational Leadership	1										1
Educational Research	1				1						
Educational Research Bulletin	1									1	
Educational Screen	1			1							
Harvard Educational Review	1		1								
High School Journal	1							1			
Journalism Quarterly	1								1		
J. of Education & Psychology	1					1					
J. of Franklin Institute	1				1						
J. of the Optical Society	1				1						
J. of Speech & Hearing Disorders	1			1							
Library Trends	1	1									
Mental Hygiene	1	1									
Midland Schools	1								1		
Montana Education	1		1								
Nation's Schools	1			1							
Ohio Schools	1					1					
Optometric Weekly	1										1
Orthoptist	1			1							
Psychometrika	1									1	

Table 3 cont'd.

Rank order published research literature in reading - 1936-1937 -- 1945-1946. cont'd.

Journal	Total no. articles	1936-1937	1937-1938	1938-1939	1939-1940	1940-1941	1941-1942	1942-1943	1943-1944	1944-1945	1945-1946
Public School Messenger	1				1						
Quarterly J. of Speech	1			1							
Research Quarterly	1										1
Secondary Education	1		1								
School Curriulum & Economic Improvement	1					1					
School Executive	1					1					
Social Education	1							1			
Social Forces	1				1						
Special Education Review	1										1
Studies & Summaries	1					1					
Training School Bulletin	1									1	
Wisconsin J. of Education	1					1					
Totals	780	79	82	103	97	90	91	84	51	43	60

Table 4

Rank order published research literature in reading - 1946-1947 -- 1955-1956.

Journal	Total no. articles	1946-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956
J. of Educational Research	111	8	12	16	12	7	8	12	10	9	17
J. of Educational Psychology	80	12	9	8	5	6	6	14	4	8	8
Elementary School J.	60	9	5	3	8	2	5	8	6	9	5
Journalism Quarterly	52	4		8	6	3	5	3	7	8	8
Elementary English	51	2	3	7	8	3	6	5	3	5	9
J. of Applied Psychology	48	6	1	6	3	7	13	8		1	3
British J. of Educational Psychology	31	2	1	1	5	6	1	5	3	4	3
School & Society	26	1	2		2	6	5	4	1	1	4
School Review	17	3	2	1	1	3	4	1	1		1
Ed'l. Administration & Supervision	13			1	2		3	4		2	1
Ed'l. & Psychological Measurement	13				1		2	2	8		
Educational Research Bulletin	13	3	3	3		1	2				1
J. of Genetic Psychology	12		3	1	1	4				1	2
Studies in Reading	12				8	4					
Calif. J. of Educational Research	11					4		4	1		2
J. of Experimental Education	11	1	1	2	1	1	1	1	1	2	
J. of Social Psychology	11		1			4	2	1	1		2
J. of Experimental Psychology	10	4			1			3		2	
J. of Consulting Psychology	9		1	1	1	1		2		2	1
American J. of Psychology	8		2	1				4		1	
Education	8	1			1		3		2	1	
J. of Psychology	8		1		3		1	1		1	1
College English	7				1					5	1
J. of General Psychology	7			2	1		1		2	1	
Peabody J. of Education	7			1	2		1			2	1
Amer. J. of Optometry & Archives of Amer. Academy of Optometry	6						1		2		3
Language Arts & Fine Arts Rev. of Educational Research	6			3			1			2	

Table 4 cont'd.

Rank order published research literature in reading - 1946-1947 -- 1955-1956. cont'd.

Journal	Total no. articles	1946-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956
American J. of Ophthalmology	5		2						1	2	
American J. of Orthopsychiatry	5		1		1				2		1
Catholic Educational Review	5		2					1	2		
J. of Pediatrics	5		1	2						1	1
High Points	4	2	1								1
Improving Educational Research	4		4								
J. of Educational Sociology	4			1	3						
J. of Speech & Hearing Disorders	4		1	1				1		1	
Library Quarterly	4		2	2							3
Alberta J. of Educational Research	3						1		1		
British J. of Psychology	3			1	2					1	
Calif. J. of Elementary Education	3				1			2			
Columbia Optometrist	3						1	1			1
English Journal	3			2					1		
Genetic Psychology Monographs	3		2	1							1
Illuminating Engineering	3						2				
J. of Amer. Optometric Assn.	3						1		1		
J. of Higher Education	3	1									
Nat'l. Assn. of Secondary School Principal's Bulletin	3		1				2				
Psychological Monographs: General & Applied	3	1	1		1			2	1		
The Reading Teacher	3						1				2
Rev. of Educational Research	3				1	1			1		
Training School Bulletin	3								1		
American J. of Mental Deficiency	2	1								1	1
Archives of Pediatrics	2										2
British J. of Statistical Psychology	2					1	1				
Child Development	2				1						
The Clearing House	2	1									

Table 4 cont'd.

Rank order published research literature in reading - 1946-1947 -- 1955-1956. cont'd.

Journal	Total no. articles	1946-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956
J. of Communication	2									2	
J. of Negro Education	2						1				1
J. of Personality & Social Psych.	2				1					1	
J. of Projective Techniques	2								1	1	
The Nervous Child	2	1							1		
Optometric Weekly	2		1					1			
Phi Delta Kappan	2						1	1			
Psychometrika	2	2									
Science	2				1					1	
Sociology & Social Research	2				1	1					
Speech Monographs	2								1	1	
American J. of Psychotherapy	1		1								
American J. of Public Health	1	1									
British J. of Educational Studies	1										1
Calif. J. of Secondary Education	1			1							
Calif. Teacher's Assn. J.	1								1		
Chemical Education	1							1			
Chicago Schools Journal	1				1						
Dr. Alagappa Training College J. of Ed.	1								1		
Editor & Publisher	1						1				
Educational Review	1								1		
German Quarterly	1								1		
Handbook of Applied Psychology	1					1					
J. of Abnormal & Social Psychology	1			1							
J. of Clinical Psychology	1									1	
J. of Mental Science	1			1							
J. of Nervous & Mental Disease	1									1	
J. of Optical Society of America	1			1							
J. of Personality	1									1	
J. of School Psychology	1		1								

Table 4 cont'd.

Rank order published research literature in reading - 1946-1947 -- 1955-1956. cont'd.

Journal	Total no. articles	1946-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956
Junior College Journal	1					1					1
MART News	1										
Mathematics Teacher	1		1								
Michigan Education Journal	1							1			
Mississippi Educational Advance	1		1								
Nat'l. Business Education Quarterly	1			1							
Nat'l. Education Assn. Journal	1						1				
The Nation's Schools	1								1		
Occupations	1		1								
Optometric Association	1		1								
Optometric World	1		1								
Personnel	1						1				
Personnel Psychology	1					1					
The Phoenix	1	1									
Pittsburgh Schools	1							1			
Progressive Education	1						1				
Psychological Bulletin	1		1								1
Public Opinion Quarterly	1						1				
Quarterly of Child Behavior	1					1					
Quarterly J. of Experimental Psych.	1										
Quart. Rev. of Higher Ed. Among Negroes	1	1				1					
School Science & Math.	1							1			
Science Ed.	1	1									
Scientific Monthly	1							1			
Sight-Saving Review	1										
Sociometry	1			1		1					
Tasmanian Education	1										
Teacher's College Journal	1		1								

Table 1 cont'd.

Rank order published research literature in reading - 1946-1947 -- 1955-1956. cont'd.

Journal	Total no. articles	1946-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956
Texas Outlook	1		1								
Understanding the Child	1	1									
Virginia J. of Education	1		1								
Visual Digest	1		1								
Volta Review	1	1									
Totals	814	71	78	81	87	76	82	97	70	83	89

Table 3

Rank order published research literature in reading - 1956-1957 -- 1965-1966.

Journal	Total no. articles	1956-1957	1957-1958	1958-1959	1959-1960	1960-1961	1961-1962	1962-1963	1963-1964	1964-1965	1965-1966
The Reading Teacher	156		1	3	10	13	15	21	28	20	45
J. of Educational Research	155	12	18	18	13	16	13	23	9	17	16
Elementary English	123	7	8	16	7	11	13	16	13	14	18
Journalism Quarterly	109	2	11	9	7	14	15	7	26	4	14
J. of Developmental Reading	91		3	9	12	18	14	11	20	4	
Elementary School Journal	70	6	7	5	1	6	5	9	10	13	8
J. of Educational Psychology	51	6	3	5		6	10	4	5	10	2
British J. of Ed'l. Psychology	43	5	2	5	8	3	6	3	3	6	2
J. of Reading	34									20	14
J. of Experimental Education	31	2	3	2		3	2	6	8	4	1
Alberta J. of Educational Research	26	2	1	2	5	3	2	1	3	3	4
Perceptual & Motor Skills	25						3	3	5	9	5
J. of Abnormal & Social Psychology	24					4	11	1	6	2	
Calif. J. of Educational Research	22	1		2	5	1	3	2	3	5	
Education	20		1	1	2	4	3	4	3	1	1
Amer. J. of Optometry & Archives of Amer. Academy of Optometry	17	2	4	3	1		1	1	1	2	2
English Journal	16		5	1		1	2	2		1	4
J. of Applied Psychology	15		3	1	1		3		3	2	2
Psychological Reports	15						2	2	2	3	6
J. of The Reading Specialist	14									5	9
J. of Genetic Psychology	13	1		6				1	1	2	2
Ontario J. of Educational Research	13				3	3		3		3	1
Public Opinion Quarterly	13						3		9		1
Exceptional Children	10						3	2	1		4
Illinois School Research	10										10
J. of Communication	10						3	1	2	1	3
J. of General Psychology	10	1		2	1		1		4	1	
J. of Psychology	10	1	1	1		4		1		2	
J. of Speech & Hearing Disorders	10	3		2		1	2		1		1

Table 5 cont'd.

Rank order published research literature in reading - 1956-1957 -- 1965-1966. cont'd.

Journal	Total no. articles	1956-1957	1957-1958	1958-1959	1959-1960	1960-1961	1961-1962	1962-1963	1963-1964	1964-1965	1965-1966
Reading Research Quarterly	10										10
American Education Research J.	9								2	3	4
American J. of Mental Deficiency	9							2		2	5
Child Development	9		1			1			4	1	2
J. of Advertising Research	9								7	1	1
J. of Education	9		3	1	2	1			2		
J. of Verbal Learning & Verbal Behavior	9								6	1	2
Psychology in the Schools	9									5	4
Ed'l. & Psychological Measurement	8			1		1	2	1	1	1	1
Educational Research	8				1			1	2	2	2
Library Quarterly	8		1		2	1	1		1		2
Rev. of Educational Research	8								1	2	5
J. of Experimental Psychology	7									3	4
American J. of Orthopsychiatry	6							3	1	1	1
Audio-Visual Communication Review	6		1			1			1		3
Columbia Journalism Review	6								6		
J. of Consulting Psychology	6						2	2		1	1
J. of Personality & Social Psychology	6									1	5
Training School Bulletin	6						3	1			2
American J. of Psychology	5							2	2		1
Personnel & Guidance Journal	5				1	2		2			
Phi Delta Kappan	5	3			1					1	
School Science & Math.	5	1			1	1		1			1
Science Education	5	1		1		1		1			1
British J. of Psychology	4									1	3
Chicago Schools J.	4	1		1			1				1
Editor & Publisher	4						4				
Educational Leadership	4		1	1				1		1	
Educational Research Bulletin	4	1				1	2				

Table 5 cont'd.

Rank order published research literature in reading - 1956-1957 -- 1965-1966. cont'd.

Journal	Total no. articles	1956-1957	1957-1958	1958-1959	1959-1960	1960-1961	1961-1962	1962-1963	1963-1964	1964-1965	1965-1966
Genetic Psychology Monographs	4			1				1	1		1
J. of Educational Measurement	4										4
J. of Social Psychology	4	1	1						1		1
Nat'l. Assn. of Secondary School Principal's Bulletin	4				1	1		2			
Peabody J. of Education	4	1				1				2	4
Speech Monographs	4						3				
American Imago	3								1		
American J. of Ophthalmology	3	1		1						2	1
Arithmetic Teacher	3										
Ed'l. Administration & Supervision	3			1	1		1				
Language Arts & Fine Arts Rev. of Ed'l. Research	3		1			2					1
Mathematics Teacher	3	1				1			1		2
Reading Horizons	3		1	1				1			
School & Society	3								2		
Annual Review of Psychology	2			2						1	1
Australian J. of Education	2										
Canadian J. of Psychology	2	1	1								1
Clearing House	2	1							2		
College English	2						1	1			
Gifted Child Quarterly	2	1		1							1
High School Journal	2			1					2		
J. of American Optometric Assn.	2						1	1			
J. of Clinical Psychology	2							1	1		
J. of Education & Psychology	2						2				
J. of Negro Education	2								1		1
J. of School Psychology	2										
Junior College J.	2										
Kansas Studies in Education	2										

Table 5 cont'd.

Rank order published research literature in reading - 1956-1957 -- 1965-1966. cont'd.

Journal	Total no. articles	1956-1957	1957-1958	1958-1959	1959-1960	1960-1961	1961-1962	1962-1963	1963-1964	1964-1965	1965-1966
Michigan Education Journal	2							2			
National Elementary Principal	2									1	1
Psychological Bulletin	2			1						1	
School Review	2		1							1	
Science Teacher	2						2				
Sociometry	2						1				1
Teacher Education	2									2	
Vocational Guidance Quarterly	2						1			1	
Acta Otolaryng	1			1							
Acta Sociologica	1					1					
Adult Leadership	1		1								
American Biology Teacher	1							1			
American Psychologist	1		1								
American Sociological Review	1		1								
Annals of Otology, Rhinology & Laryngology	1					1					
Archives of Ophthalmology	1							1			
British J. of Statistical Psychology	1	1									
Canadian Ed. & Research Digest	1									1	
Catholic Educational Review	1						1				
Childhood Education	1									1	
College Composition & Communication	1			1							
College of Education Record	1								1		
Education Digest	1										1
Educational Horizons	1										1
High Points	1	1									
Illinois English Bulletin	1									1	
J. of Abnormal Psychology	1								1		
J. of Counseling Psychology	1										1
J. of Experimental Analysis of Behavior	1								1		

Table 5 cont'd.

Rank order published research literature in reading - 1956-1957 -- 1965-1966. cont'd.

Journal	Total no. articles	1956-1957	1957-1958	1958-1959	1959-1960	1960-1961	1961-1962	1962-1963	1963-1964	1964-1965	1965-1966
J. of Experimental Social Psychology	1									1	
J. of Research in Science Teaching	1										1
J. of Social Research	1		1								
J. of Speech & Hearing Research	1								1		
J. of Teacher Education	1					1					
Mental Hygiene	1							1			
Merrill-Palmer Quart. of Behavior & Development	1									1	
Modern Language Journal	1	1									
Montana Education	1										1
Nat'l. Assn. of Women Deans & Counselors Journal	1			1							
Negro Educational Review	1		1								
Pittsburgh Schools	1			1							
Psychological Monographs: General & Applied	1						1				
Quart. J. of Experimental Psychology	1									1	
Reading Improvement	1									1	
Saskatchewan Bulletin	1		1								
School & Community	1			1							
School Management	1									1	
School Service Report	1										1
Slow Learning Child	1									1	
Social Forces	1								1		
Univ. of Kansas Bulletin of Ed.	1					1					
Totals	1484	70	88	111	86	130	164	153	219	201	262

TABLE 6

Values by 50% of articles

Period covered	Most cited		Least cited	
	Journals	Articles	Journals	Articles
1884 to 1925-26	4 (9.5%)	178 (54.6%)	38 (90.5%)	148 (45.4%)
1926-27 to 1935-36	8 (7.4%)	393 (51.5%)	99 (92.6%)	352 (48.5%)
1936-37 to 1945-46	6 (5.9%)	395 (56.0%)	96 (94.1%)	385 (44.0%)
1946-47 to 1955-56	6 (5.0%)	402 (49.3%)	112 (95.0%)	412 (50.7%)
1956-57 to 1965-66	7 (5.0%)	755 (50.8%)	130 (95.0%)	729 (49.2%)

Journal Coverage for the Individual and the Library

The results of the 50% and the 80% analyses are interesting and suggest a number of alternatives for both the individual attempting to sharpen his own personal monitoring system for acquisition of reading research or the information analysis center attempting to establish a viable monitoring and acquisition system. Of course the ideal approach for both would be to merely subscribe to all the journals identified in Table 5 and monitor them accordingly for relevant articles. With some surveillance of the overall literature to continue to add peripheral journals, almost total acquisition of the relevant material could be realized. However, this idealized approach is seldom possible, particularly when economics is a major factor. The individual, or the information analysis center operating in isolation, cannot afford the luxury of subscribing to the large number of journals which publish one or two articles every few years just to maintain complete coverage. The analysis of the relative productive importance of various journals does provide considerable help to the individual acting as his own small scale monitoring and retrieval service. As indicated in Table 6, subscription to just seven "most-cited" journals would enable the researcher to have at his fingertips better than 50% of the relevant published research literature on reading. By adding 26 journals to total the 33 indicated in Table 7 better than 80% of the literature would be available. Although the financial outlay to add subscriptions to bring the coverage up to 80% would be beyond the personal finances of most individuals, it would not be out of the ordinary for the researcher to expect his library to

TABLE 7

Values by 80% of articles

Period covered	Most cited		Least cited	
	Journals	Articles	Journals	Articles
1884 to 1925-26	12 (28.5%)	261 (80.0%)	30 (71.5%)	65 (20.0%)
1926-27 to 1935-36	26 (24.2%)	608 (80.5%)	81 (75.8%)	147 (19.5%)
1936-37 to 1945-46	26 (25.4%)	626 (80.2%)	76 (74.6%)	154 (19.8%)
1946-47 to 1955-56	28 (23.7%)	653 (80.2%)	90 (76.3%)	161 (19.8%)
1956-57 to 1965-66	33 (24.0%)	1194 (80.3%)	103 (76.0%)	290 (19.7%)

maintain subscriptions to the additional 26 core publications - or the total 33 for that matter. With this combination of library and individual resources the researcher would actually have access to the total documents, on a personal or loan basis, for a considerable amount of the published research literature in reading. The results of the analysis provide the individual with objective data on which to base his subscription decisions. They also enable him to communicate with the library on an objective basis in recommending establishment of subscriptions to maintain a useful basic collection on reading.

Journal Coverage in an Information Analysis Center

Establishing a monitoring and acquisition system for an information analysis center is another matter. Comprehensive coverage becomes extremely important but again is usually attainable only as economics permit. In producing bibliographies or state-of-the-art and review papers such coverage becomes almost mandatory. A major service would be performed by such a center by at least announcing those articles that would not appear in the 50% coverage maintained by the individual or even the 80% coverage provided him in concert with the library collection. Another factor also enters here. Even though the combined collection of the individual and the library might actually provide access to the total documents, the information analysis center helps bridge the gap between the documents and the user by providing the indispensable service of announcing, either on a current awareness basis or through bibliographic and review functions, the relevant articles which may be of interest. Most active professionals do not have the time or the resources to system-

atically maintain their own surveillance net, except in a small way, even though they might have access to the total document once it is identified for them. The information center performs an important adjunct role here in essence enabling the researcher to better use whatever collection he maintains individually or in cooperation with the library.

In light of the previous discussion it would seem that an information analysis center would want to maintain a complete monitoring and acquisition system if possible. The individual can monitor a small number of highly productive journals but the real service of such a center is in bringing the peripheral journal literature to his attention. The 80% level might be a compromise with total coverage and the 50% level represents a bare minimum standard. Even with the resources available to the analysis center that would perhaps not be available to the individual or library, few centers could operate economically as individual units on the total subscription basis. However, if centers with missions and subject areas falling into the same domain - such as the broad field of education - operate in concert then maximum use can be made of the highly expensive peripheral literature because there would be substantial probability that articles in the low frequency literature not of use in one center would be of use in another. Each of the ERIC units now needs a fairly precise definition of its core and peripheral literature. A central clearinghouse type arrangement can then engage in the subscription function and distribute journals and articles in accordance with the subject definitions of the separate units. A highly effective and valuable service to education could be accomplished within the economic

constraints now operating. Current exploratory research in progress within the ERIC system will examine the feasibility and operational aspects of such a concept. There is every likelihood that such a system will be implemented in the near future for the ERIC network.

Journal Coverage at the 80% Level

A number of factors in addition to sheer output have to be considered in selecting journals to be monitored for an effective surveillance program to cover the journal literature in any field. For example, the relative productive importance of various journals over time as well as at the instant the system is being established has to be considered. For purposes of illustration the following discussion considers the decisions to be made in establishing a monitoring and acquisitions system for reading research literature which would operate at the 80% level of coverage. Table 8 presents a composite of the core literature production, by periods, for the total time span covered by the Gray Summaries. The vertical column for each period indicates the core journals (those producing 80% of the articles reported) for that period and the number of articles published. Many of the journals produced articles in periods other than those marked but the volume was not of sufficient magnitude to classify them as core publications. The 65 core publications have been arrayed in seven categories. Category I includes those journals which have been listed as core publications for four or five of the periods. These publications would be essential in any listing of current core journals for reading. Journals in Category II, those listed as core for three decades, should also be included. The English Journal is in-

Table 8

Composite - core journal production 1884 - 1965-66

Journal	1884 to 1925-26	1926-27 to 1935-36	1936-37 to 1945-46	1946-47 to 1955-56	1956-57 to 1965-66
Category I					
1. Elementary School J.	59	92	90	60	70
2. J. of Educational Psychology	45	53	93	80	51
3. J. of Educational Research	35	68	93	111	155
4. Education		11	6	8	20
5. J. of Applied Psychology		43	18	48	15
6. J. of Genetic Psychology		14	14	12	13
7. J. of Experimental Education		12	34	11	31
Category II					
8. English Journal		18	22		16
9. J. of General Psychology			10	7	10
10. J. of Psychology			12	8	10
Category III					
11. Amer. J. of Optometry & Archives of Amer. Academy of Optometry				6	17
12. British J. of Educational Psychology				31	43
13. Calif. J. of Educational Research				11	22
14. Elementary English				51	123
15. Journalism Quarterly				52	109

Table 8 cont'd.

Composite - core journal production 1884 - 1965-66

Journal	1884 to 1925-26	1926-27 to 1935-36	1936-37 to 1945-46	1946-47 to 1955-56	1956-57 to 1965-66
Category IV					
16. Alberta J. of Educational Research					26
17. American Education Research J.					9
18. American J. of Mental Deficiency					9
19. Child Development					10
20. Exceptional Children					10
21. Illinois School Research					24
22. J. of Abnormal & Social Psychology					10
23. J. of Communication					91
24. J. of Developmental Reading					34
25. J. of Reading					14
26. J. of The Reading Specialist					10
27. J. of Speech & Hearing Disorders					25
28. Perceptual & Motor Skills					13
29. Ontario J. of Educational Research					15
30. Psychological Reports					156
31. The Reading Teacher					10
32. Reading Research Quarterly					13
33. Public Opinion Quarterly					
Category V					
34. School Review	14	34	38	17	
35. School & Society	38	40	24	26	

Table 8 cont'd.

Composite - core journal production 1884 - 1965-66

Journal	1884 to 1925-26	1926-27 to 1935-36	1936-37 to 1945-46	1946-47 to 1955-56	1956-57 to 1965-66
Category V cont'd.					
36. Ed'l. Administration & Supervision	7	11	8	13	
37. Ed'l. Research Bulletin		28	7	13	
38. J. of Experimental Psychology		12	12	10	
39. Peabody J. of Education		14	16	7	
Category VI					12
40. Studies in Reading					13
41. Ed'l. & Psychological Measurement					9
42. J. of Consulting Psychology					7
43. College English	7		7		8
44. American J. of Psychology					5
45. American J. of Ophthalmology					11
46. J. of Social Psychology					6
47. Language Arts & Fine Arts Rev. of Educational Research					
Category VII					
48. Library Quarterly		16	15		
49. Pittsburgh Schools			10		
50. Amer. Academy of Optometry			8		

Table 8 cont'd.

Composite - core journal production 1884 - 1965-66

Journal	1884 to 1925-26	1926-27 to 1935-36	1936-37 to 1945-46	1946-47 to 1955-56	1956-57 to 1965-66
Category VII cont'd.					
51. Elementary English Review		35	47		
52. Chicago Schools Journal	8	6	6		
53. Psychological Monographs			10		
54. Rev. of Educational Research			8		
55. Teachers College Record	23	21	11		
56. J. of Higher Education		10	7		
57. Psychological Bulletin		8			
58. Univ. of Pittsburgh School of Education Journal		10			
59. Psychological Clinic	7	13			
60. Calif. J. of Elementary Education		6			
61. Calif. Quarterly of Secondary Ed.		8			
62. Childhood Education		9			
63. Educational Method		16			
64. Pedagogical Seminary	13				
65. Elementary School Teacher	11				

cluded in this category even though its publication during one of the periods was not high enough to warrant its being listed as core. Category III lists journals which have been core publications for the most recent two decades. Category IV lists journals which have been identified as the core productions for the most recent decade. Both categories should be included as current core publications for reading research.

Category V is an interesting category and illustrates the shift that takes place among journals in terms of relative productivity of articles. This category includes six journals which were core producers for three and four decades but whose volume was not of sufficient magnitude in the most recent decade to warrant classification as core. All six journals, however, were still producing reading articles in the most recent period and may have just had a low publication rate for the current decade or may be declining in overall productive importance. In any event, it would be wise to include them in a current listing of core journals so their production can be monitored to determine if they warrant future core status.

Category VI journals are those which had core production the fourth period but fell out of the core status in the most recent decade. Some of these journals produced articles the most recent decade and may also warrant monitoring to determine if their decline is temporary or will continue. Category VII includes those journals which were at one time of core status but have not achieved that level of productivity for the most recent two, three, and four decades. These publications may still produce an occasional article on reading but the volume of publication

is relatively low as compared to their previous output. They can definitely be classed as peripheral publications for the current period.

It would appear that the 47 journals in Categories I through IV would comprise a highly useful list of current core or most productive journals for reading research. Monitoring the publication of these journals would assure that 75-80 percent of the published research literature related to reading would be identified. Judicious selection of additional publications in Category VII, and from other high frequency and peripheral journals identified previously, would increase the probability substantially that the majority of relevant sources were being included. This core listing is compiled on the basis of volume of production for any one journal. Caution must be exercised in using it as the sole means of selecting important journals for reading research. The significance of the rank of the volume of publication for any one journal is relative to the volume of publication for all other journals tabulated during that period. Thus, lines of demarcation for the three categories - core, high frequency, and peripheral - are seldom completely absolute and many journals shifted in and out of these categories, based on their relative production, for the time period being tabulated.

In addition, the relative importance of some single articles from low frequency publications must be considered when identifying the important core journals. For example, the AERA Language Arts and Fine Arts Review, item 47 - Category III, had sufficient relative publication volume to classify it as core for one period, but not for the most recent decade. The Review is done on a three year cycle and has become one of

the most significant and useful reviews for reading research. However, if core journals were selected on the basis of publication volume alone the review would be omitted. Any listing of core publications should consider other criteria in addition to sheer volume of publication, and the low producing high frequency and peripheral literature should also be combed for the extremely significant occasional articles and reviews they can contribute.

It is interesting to note the nature and distribution of the 33 core publications identified for the most recent decade. They illustrate the diversity of interests involved and the interdisciplinary thrust of recent research efforts in reading. Journals from domains of education such as child development, administration, curriculum, and educational psychology are represented. Reports from areas such as psychology, vision, exceptionality, communication, library science, and counseling and guidance are also included. This diversity is illustrated further when looking beyond the core publications to high frequency and peripheral journals for the most recent decade. Many of these publications are of recent origin and will probably evolve as continuous core publications in future years. Another interesting phenomenon is the increasing volume of research being identified in journals published in other countries. The Alberta Journal of Educational Research, the Ontario Journal of Educational Research, and the British Journal of Educational Psychology were all classified as core. Other journals from other countries also appear as high frequency and peripheral publications.

Table 8 also illustrates one other important development relevant

to production of reading research. The International Reading Association started as a professional society during the middle fifties. The three journal publications of the Association, the Reading Teacher, the Journal of Reading (formerly the Journal of Developmental Reading) and the Reading Research Quarterly, reported 291 articles on reading research for 1956-57 to 1965-66. This represents approximately 25 percent of the total production of research articles for the ten year period. Thus, IRA has gradually assumed a major role in generating research literature in the field of reading.

Conclusions

As was previously pointed out, one important element in the Master File of materials making up the ERIC/CRIER data base consists of the research reports which have appeared in the published journal literature. It is essential that techniques be developed to insure that journal literature continues to be added to the data base in a systematic fashion. The most important question to be answered in developing an effective monitoring and acquisition program for the journal literature is, "What combination of journal titles should be monitored to insure adequate surveillance of the literature?" This report describes completed research on the Gray Summaries which is particularly helpful in providing an answer to this question. It is suggested that the degree of coverage may differ depending on purpose and the economics of the situation. Three possible levels of coverage are explored: total acquisition, acquisition at the 50% level, and acquisition at the 80% level. It is recommended that, ideally, an information analysis center should strive

for total coverage with the 50% and 80% levels being admissible alternatives. Decision factors other than pure quantity in selecting journals are explored and recommendations made as to what journals should be monitored to achieve the 80% level of coverage. Individuals, libraries, and information analysis centers could use the results of this project in establishing monitoring and acquisition programs on an objective basis.